CLAIM AMENDMENTS

This listing of claims will replace all prior versions and listings of claims in the application.

۱	1. (Currently Amended)) Receiver (1.1-1) A receiver comprising:
2	a receiving stage (2.12) for receiving that receives frequency signals;
3	a mixing stage (3.13) coupled to the receiving stage (2.12) for generating that
1	generates converted frequency signals;
5	a modulating stage (4.14) coupled to the mixing stage (3.13) for that delta-
3	sigma modulates the converted frequency signals; and
7	a filtering stage (5.15) coupled to the modulating stage (4.14) for filtering that
8	filters the delta-sigma modulated converted frequency signals, wherein the filtering
9	stage comprises a decimator receiving an output signal from a time-control loop
0	having a loop quantizer and a loop filter.
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ı ·	2. (Currently Amended) Receiver (1,11) as defined by The receiver of claim 1,
2	wherein the modulating stage (4.14) comprises:
3	a delta-sigma modulator (41,42,43,90) -comprising:
4	a low-pass filter-(91);
ō	a quantiser (92)-quantizer coupled to the low-pass filter (91); and
6	a digital-to-analog converter (93)-for-feeding-that feeds back an output

of the quantiser (92) quantizer to an input of the low-pass filter (91).

1	3. (Currently Amended) Receiver (1,11) as defined by The receiver of claim 2,
2	wherein the low-pass filter (91)-comprises a time-continuous filter.
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ı	4. (Currently Amended) Receiver (1,11) as defined by The receiver of claim 1,
2	further comprising:
3	a further mixing stage (6.16)—coupled to the filtering stage (5,15)—for
1	generating that generates baseband signals; and
5	a further filtering stage (7,17) coupled to the further mixing stage (6,16)-for
3	that performs channel selective filtering of the baseband signals.
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1	5. (Currently Amended) Receiver (1) as defined by The receiver of claim 1,
2	wherein the mixing stage (3)-comprises a mixer (32), and the modulating stage
3	comprises a delta-sigma modulator (41).
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ì	6. (Currently Amended) Receiver (11) as defined by The receiver of claim 1,
2	wherein the mixing stage (13)-comprises:
3	a first mixer (34)-for generating that generates in-phase signals and
4	a second mixer (35) for generating that generates quadrature signals, and
5	the modulating stage (14)-comprises:
6	a first delta-sigma modulator (42)—for—that delta-sigma modulating
7	modulates the in-phase signals, and

8	a second delta-sigma modulator (43) for that delta-sigma modulating
9	modulates the quadrature signals.
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1	7. (Currently Amended) System (100) A system comprising:
2	a transmitter; (101)-and
3	comprising a receiver (1,11) which comprises:
4	a receiving stage (2.12) for receiving that receives frequency signals;
5	a mixing stage (3,13) coupled to the receiving stage (2,12) for
6	generating that generates converted frequency signals;
7	a modulating stage (4,14) coupled to the mixing stage (3,13) for that
8	delta-sigma modulating modulates the converted frequency signals; and
9	a filtering stage (5.15) coupled to the modulating stage (4.14) for
10	filtering-that filters the delta-sigma modulated converted frequency signals,
11	wherein the filtering stage comprises a decimator receiving an output signal
12	from a time-control loop having a loop quantizer and a loop filter.
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l	8. (Currently Amended) Modulating/filtering A modulating/filtering stage
2	(10,20) for use in a receiver $(1,11)$ comprising:
3	a receiving stage (2,12) for receiving that receives frequency signals;
4	a mixing stage (3.13)-coupled to the receiving stage (2,12) for generating that
5	generates converted frequency signals;
6	the modulating/filtering stage (10,20) comprising

a modulating stage (4,14) coupled to the mixing stage (3,13) for that deltasigma modulating modulates the converted frequency signals; and
a filtering stage (5,15) coupled to the modulating stage (4,14) for filtering that
filters the delta-sigma modulated converted frequency signals, wherein the filtering

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9. (Currently Amended) Method A method for receiving frequency signals and comprising the steps of

stage comprises a decimator receiving an output signal from a time-control loop

3 generating converted frequency signals;

having a loop quantizer and a loop filter.

delta-sigma modulating the converted frequency signals; and

filtering the delta-sigma modulated converted frequency signals, wherein the filtering uses a decimator receiving an output signal from a time-control loop having a loop quantizer and a loop filter.

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10. (Canceled)

- 11. (New) The receiver of claim 1, wherein the loop filter further comprises:
- an adder that combines a detected signal with a feedback signal, thereby
- 3 producing a sum;
- an inverse z block that receives the sum and produces the feedback signal;
- 5 and

a gain block that processes the feedback signal to produce the output signal

that is sent to the loop quantizer to control the decimator.